

CONFIGURATION SOFTWARE



CHAPTER 6

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The SOLO temperature controller can be configured and monitored by the SOLO Configuration Software. It is available at the following URL for free download.

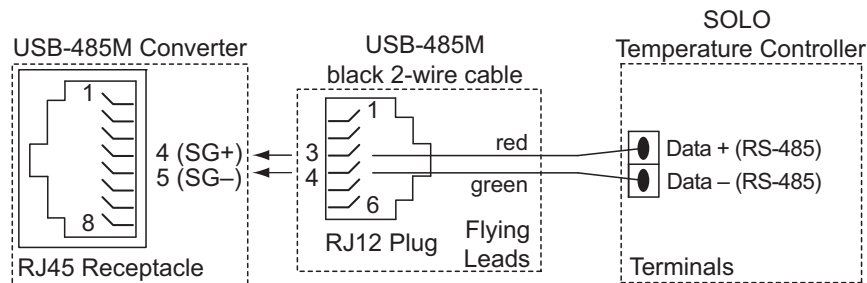
<http://support.automationdirect.com/downloads.html>

PC Connection

To connect a PC to the SOLO controller, you will need the following component from AutomationDirect.

- USB-485M (USB to RS-485 communication adapter)

Use the supplied black 2-wire cable to connect the USB adapter to the SOLO controller. Plug the adapter into one of the PC's USB ports.



Software Installation

Download **slsoft.exe** from the above URL and copy the content onto your computer at the location you prefer. This software does not require an installation application. Just double click on the program icon to start working.

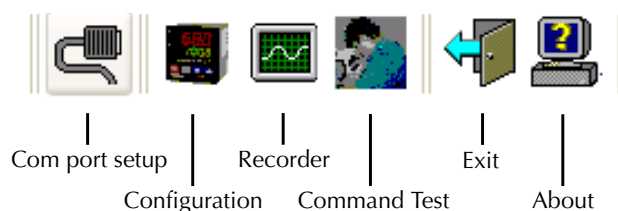


slsoft.exe

You will see the following screen when the Configuration Software opens.



There are six icons that are assigned to the main menu.

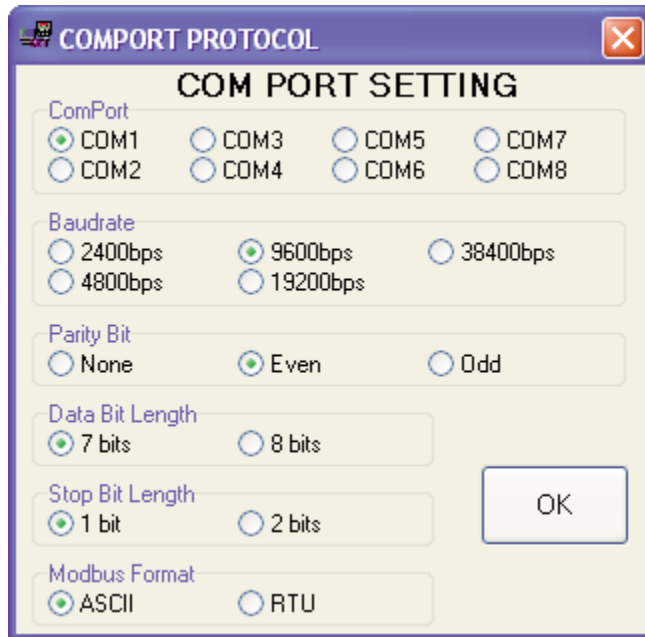


Com port Settings

Click on the icon below or select the PROTOCOL menu at the top of the window



The window below opens.



Note: The above graphic shows the default RS-485 setup for the SOLO Controller.

1. ComPort: Select the com port on your PC to be used for communicating to the SOLO controller.
2. The remaining com port settings should match the RS-485 communication port setup on the controller.
3. Click the OK button once all parameters are set.

Your PC is now able to communicate to the SOLO Controller. Proceed to one of these sections.

- If you want to configure the controller → **Configuration**
- If you want to monitor / record the PV → **Recorder**

Configuration

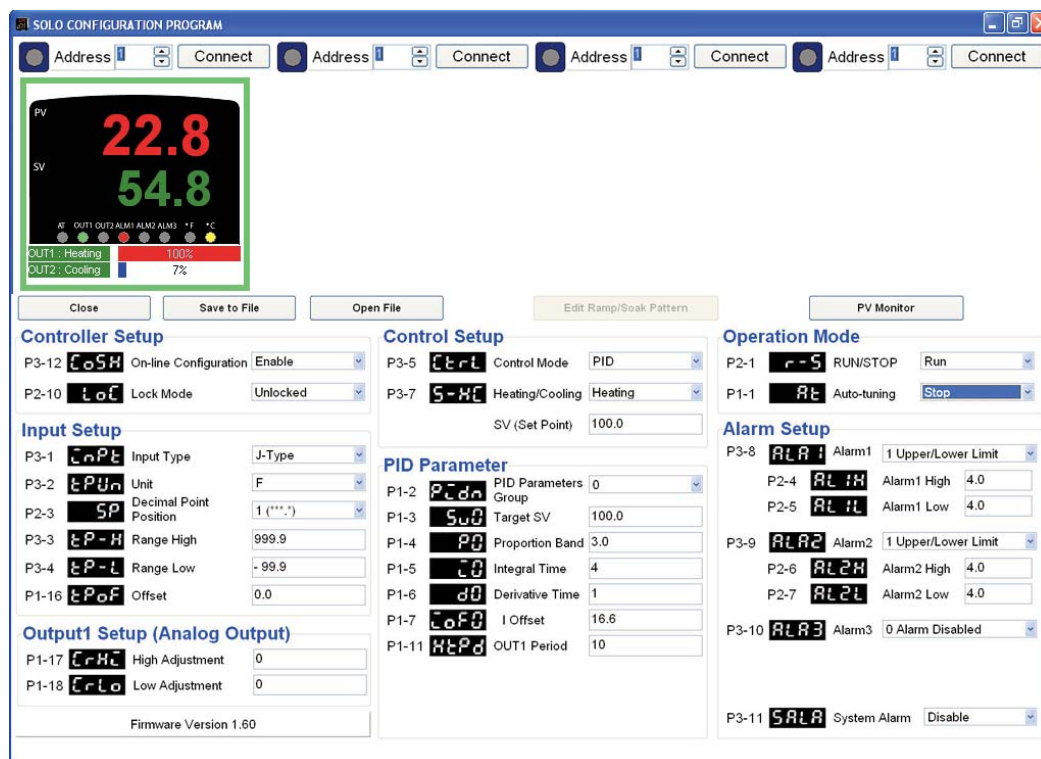
To connect to the SOLO controller, click the following icon.



The Configuration window opens.



You can configure up to four SOLO controllers at the same time. Select the Modbus address of the SOLO controller that you want to configure and click the Connect button. The following window opens.



To configure the SOLO controller from the software, ensure that the parameter On-Line Configuration is enabled and the Lock Mode is unlocked.

Controller Setup

CoSH	On-line Configuration	Enable
LoC	Lock Mode	Unlocked

Now any parameter can be changed. Press the Enter key after entering the new parameter value and the software will send the new value to the controller immediately.

If you want to save the current configuration, click the Save to File button. You can read an existing configuration file by clicking the Open File button.

You can monitor the current PV by clicking the PV Monitor button.

When you select the Ramp / Soak Control mode, you can open the Ramp / Soak pattern edit window by clicking the Edit Ramp/Soak Pattern button. The following window opens.

Ramp/Soak Pattern Editor

P2-2 Start Pattern
Read from Solo
Open File
Write to File
Write to Solo
Edit
Back

	Pattern 0	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6	Pattern 7
Step 0 SV								
Step 0 Time								
Step 1 SV								
Step 1 Time								
Step 2 SV								
Step 2 Time								
Step 3 SV								
Step 3 Time								
Step 4 SV								
Step 4 Time								
Step 5 SV								
Step 5 Time								
Step 6 SV								
Step 6 Time								
Step 7 SV								
Step 7 Time								
P3-21 Last Step Number								
P3-22 Additional Cycles								
P3-23 Next Pattern Num								

Click the Read Setting button to read the current Ramp /Soak pattern(s) from the SOLO controller.

Start Pattern: Select the pattern number that the Ramp / Soak mode starts with.

Read from Solo: Read the Ramp / Soak patterns from the SOLO controller.

Open File: Open an existing Ramp / Soak pattern file.

Write to File: Save the current Ramp / Soak pattern(s) into a file.

Write to Solo: Write the Ramp / Soak pattern(s) into the SOLO controller.

Edit: Edit the setup value that the cursor indicates.

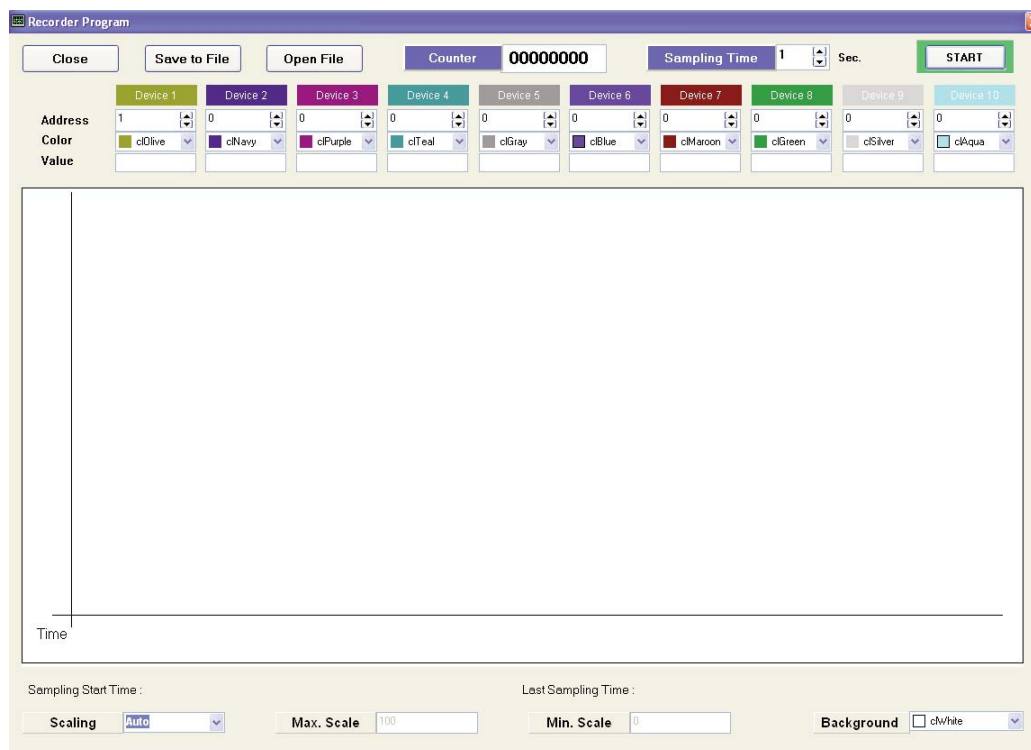
Back: Close the Ramp / Soak pattern edit window.

Recorder

To open the Recorder window, click the following icon.



The Recorder window opens.



The Recorder allows you to monitor and record the PV of up to ten SOLO controllers at the same time. Select the Modbus address of each SOLO controller and the color of your choice. Adjust the sampling time at the top of the window. Last, click the **START** button on the right top of the window to begin recording the PV.

The SOLO configuration and monitoring software allows the user to save a .txt file of the process values recorded in the software. To create a new file and save the values, use this procedure.

1. Click the **Save to File** button and create a new .txt file. Give the new file a unique name and choose an appropriate location to save the file. At this point the new file has not been written to disk.
2. Click the **Start** button. The new file is created and the software will start recording data on the trend chart.
3. Click the **Stop** button when the desired amount of data is recorded. The new file is saved to disk.

After the file has been saved to disk, the file can be opened by clicking the **Open File** button.